



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/615,922	07/13/2000	George K. Korinsky	884.298US1	4024
21186	7590	08/02/2004	EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402			THOMPSON, GREGORY D	
		ART UNIT	PAPER NUMBER	
		2835		

DATE MAILED: 08/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/615,922	KORINSKY ET AL.
	Examiner Gregory D Thompson	Art Unit 2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 5/14/04(RCE).  
 2a) This action is FINAL.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-10,28-30 and 1524 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-10,15-17,20-24,28-30 is/are rejected.  
 7) Claim(s) 18 and 19 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_.

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 9-10, 15-17, 20-24, 28-30 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Gourdine.

The housing 11 is fitted to the sink 14 in fig. 6 and the fan is F. The fan F is interchangeably coupled to the first end, port 17 of housing 11 by duct or conduit 19. The language of interchangeably is considered very broad. For example, if fan F fails then the fan F can be interchanged or replaced by a working fan F then the working fan F is interchangeably coupled (broad term) to port, end 17 by duct or conduit 19. The duct 18 is coupled to the second end, port 16 of housing 11 and can be flexible or rigid (col. 10, lines 20-23). Duct 18 is extendable (broad term) when attached by clip 20 to housing or chassis 30 and extended to be attached to end or port 16 of housing 11. It is inherent that processor C be mounted on a well known board in chassis or cabinet 30 to provide an electrical system.

The ducts 18, 19, chassis or cabinet 30, fan F are all interchangeable with each other to provide cooling attachments. For example, if one element above fails it can be replace or changed.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2835

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 6 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gourdine.

Gourdine discloses the claimed structure of claims 1, 6 as discussed above in paragraph 1.

Gourdine does not teach nor suggest the fan diameter.

However, considered obvious to one skilled in the time of the invention that Fan F could be any size to provide effective cooling to different voltage devices or processors to avoid breakdown of the devices or processors.

3. Claims 1, 6, 9-10, 15, 20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Perdue.

The housing is 10, sink 16, fan is 14, processor 12, and broad is 11. the language of interchangeably is considered very board. For example, if fan 14 fails the fan 14 can be interchanged or replaced by a working fan 14 coupled to housing 10. It is inherent that 10-38 be mounted in a chassis or cabinet to provide a computer system or the like.

4. Claims 1, 6, 9-10, 15, 20-21 and 28-30 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Bollesen.

The chassis or cabinet is 226, board 210, processor or component is 214, sink is 218, housing is 300, and fan is 220A. Language of interchangeably is considered very board. For example, if fan 220B fails then fan 220B can be interchanged or replaced by

a working fan then the working fan is interchangeably coupled to a end of housing 300. The attachments can read on elements 308-1B or 308-1A and can be interchange like the fan upon failure.

5. Claims 1, 6 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Perdue.

Perdue discloses the claimed structure of claims 1, 6 as discussed above in paragraph 3 above.

Perdue does not teach nor suggest the fan diameter. However, considered obvious to one skilled at the time of the invention that the fan could be any size to provide effective cooling to different wages devices or processors to avoid breakdown of the devices or processes.

6. Claims 1, 6 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bollesen.

Bollesen discloses the claimed structure of claims 1, 6 as discussed in paragraph 4 above.

Bollesen does not teach nor suggest the fan diameter. However, it is considered obvious to one skilled at the time of the invention that the fan could be any size to provide effective cooling to different voltage devices or processors to avoid breakdown of the devices or processors.

7. The references of Yu and Scholder withdrawn in view of amendment make to claims 1, 15, 20, and 28.

8. Claims 18-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The art does not teach nor suggest a second fan coupled to the housing, an air duct coupled to the housing , a second processor, heat sink, housing, connector as claimed in claims 18-19.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory D Thompson whose telephone number is (571)272-2045. The examiner can normally be reached on (571)272-2045 from 6:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Schuberg E Darren, can be reached on (571)272-2800. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thompson/ds

07/14/04



Gregory Thompson  
Primary Examiner